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10/663,472	09/15/2003	Binod P. Gangadharan	188297/US	3749

66083 7590 11/24/2009	EXAMINER
DORSEY & Whitney LLP	
on behalf of Sun Microsystems, Inc.	HENRY, MARIEGEORGES A
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/663,472	GANGADHARAN ET AL.
	Examiner	Art Unit	
	MARIE GEORGES HENRY	2455	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _07 July 2009_.

2a)☒ This action is FINAL.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-10,17, and 19-31_ is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-10, 17, and 19-31_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All   b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

1. This is in response to the amendment filed on 07/07/2009. Claims 1-10, 17, and 19-31 are amended. Claims 11-16 and 18 are cancelled. Claims 1-10, 17, and 19-31 are pending. Claims 1 -10, 17 and 19-31 are related to frameworks for integrating information systems.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a

whole would have been obvious at the time the invention was made to a person having

ordinary skill in the art to which said subject matter pertains. Patentability shall not be

negatived by the manner in which the invention was made.

4. Claims 1-10, 17, and 19-31 is rejected under 35 U.S.C. 103(a) as being unpatentable

over **Starkovich** et al (hereinafter "Starkovich") **(US 6, 993, 585 B1**) in view of **Ng (US**

6, 411, 956 B1).

Regarding claim 1, Starkovich discloses a method of connecting an application server to

an information system, said method comprising:

providing, utilizing a hardware application server, a generic

connector interface on said hardware application server (Starkovich, column 7, lines 41-

42, fig. 4, a generic gateway is disclosed in a NT server);

receiving information related to an information system at said

hardware application server, said information system having a first interface, said

information system accessible utilizing said first interface (Starkovich, column 6, lines

34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status

information to a Transaction Gateway client); and

connecting, utilizing said hardware application server, said information system to said hardware application server via said customized connector, wherein said customized connector provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made of custom gateway).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information.

Ng discloses a feature generating, utilizing said hardware application server, a customized connector interface on said hardware application server, by modifying said generic connector interface, based on said received information (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible

connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 2, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises providing a software package. (Starkovich, column 8, lines 34-37, Gateway interface customer own application to an OLTP enterprise application).

Regarding claim 3, Starkovich and Ng disclose the method as recited in claim 2, in addition Starkovich discloses the feature wherein said generic connector interface is provided as Resource Adaptor Archive (RAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available), and wherein said information system is a relational database that is compliant with a Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 66-67, class definitions used are JavaGate compatible).

Regarding claim 4, Starkovich and Ng disclose the method as recited in claim 3, in addition Starkovich discloses the feature wherein said generating of said customized connector interface comprises: adding said first interface to said Resource Adaptor Archive (PAR) file (Starkovich, column 8, lines 34-37, a custom gateway allows to build an application interface).

Regarding claim 5, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises providing a Generic Resource Adaptor Archive (PAR) file (Starkovich, column 8, lines 28-29, a generalized java applet access feature is provided to build gateway).

Regarding claim 6, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said receiving of information related to said information system comprises: receiving one or more parameters (Starkovich, column 8, lines 38-39, key software component are part of the access relationship between a WebTx and enterprise applications).

Regarding claim 7, Starkovich and Ng disclose the method as recited in claim 6, in addition Starkovich discloses the feature wherein said receiving of information related to said information system further comprises receiving said one or more parameters as input through a Graphical User Interface (GUI) (Starkovich, column 7, lines 44-47, data is received in a format that is understandable by a URL).

Regarding claim 8, Starkovich and Ng disclose the method as recited in claim 1, in addition Starkovich discloses the feature wherein said providing of a generic connector interface comprises: providing a software package (Starkovich, column 7, lines 60-61 , Software Development Kit libraries are disclosed), and wherein said generating of a

customized connector interface comprises: adding said first interface to said software

package (Starkovich, column 8, lines 34-37, a custom Gateway provides a way for a

customer to build own gateway to interface their own applications).

Regarding claim 9, Starkovich and Ng disclose the method as recited in claim 1.

        Although Starkovich discloses the feature to built customer

own gateway to interface own application, he does not explicitly disclose the feature

wherein said connecting of said information system to said hardware application server

comprises: encapsulating said first interface by a second interface that is implemented

after said generic connector interface is customized.

        Ng discloses the feature wherein said connecting of said

information system to said hardware application server comprises:

encapsulating said first interface by a second interface that is implemented after said

generic connector interface is customized (Ng, column 3, lines 40-44, instead of

creating a new physical database connection for each connection request a global

transaction identifier is used in order to make the connection).

        Therefore it would have been obvious for one having ordinary

skill in the art at the time the invention was made to incorporate Ng flexible connection

feature with Starkovich generic connection for integrating information systems in order

to create generic connection for information systems with a flexible connection feature
in order to permit a transparent translation between different communication protocols.

Regarding claim 10, Starkovich and Ng discloses the method as recited in claim 1.

Although Starkovich discloses the feature to built customer
own gateway to interface own application, he does not explicitly disclose the feature
wherein generating a customized connector interface comprises: generating a second
interface that can encapsulate the first interface.

Ng discloses the feature wherein generating a customized
connector interface comprises: generating a second interface that can encapsulate the
first interface (Ng, column 3, lines 40-44, instead of creating a new physical database
connection for second connection request a global transaction identifier is used in order
to make the connection).

Therefore it would have been obvious for one having
ordinary skill in the art at the time the invention was made to incorporate Ng flexible
connection feature with Starkovich generic connection for integrating information
systems in order to create generic connection for information systems with a flexible
connection feature in order to permit a transparent translation between different
communication protocols

Regarding claim 17, Starkovich discloses in a component based computing

environment, an apparatus providing a connection interface for connecting an

application component to an information system via an application server, comprising:

an application component (Starkovich, column 8, lines 64-

65, an application access component is disclosed); an application server,

communicably coupled to said application component (Starkovich, column 7, lines 41-

42, fig. 4, a generic gateway is disclosed in a NT server); and

a connection interface, implemented by said application

server, operable to connect said application server to a first information system, said

first information system having a first interface and said first information system

accessible utilizing said first interface, via said first interface (Starkovich, column 6, lines

34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status

information to a Transaction Gateway client),

wherein said connection interface operable to encapsulate

said first interface of said first information system, allowing said application server to

establish a connection that connects said application component to said first information

system (Starkovich, column 9, lines 34-36, a stub software component is part of a call

procedure).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose wherein said connection interface is a configurable interface configurable to connect said application server to a second information system through a second interface which is different from the first interface.

Ng discloses a feature wherein said connection interface is a configurable interface configurable to connect said application server to a second information system through a second interface which is different from the first interface (Ng, column 3, lines 40-44, instead of creating a new physical database connection for each connection request a global transaction identifier is used in order to make the connection).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information method in order to create generic connection for information method with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Regarding claim 19, Starkovich and Ng disclose the interface apparatus as recited in claim 17, in addition Starkovich discloses the feature wherein the connector comprises a managed connection factory that is operable to generate a connection factory and

manage a connection between said application component and said first information

system (Starkovich, column 10, lines 25-27, a COM-based interface, using stub.dll

understands how to communicate over common interface).

Regarding claim 20, Starkovich and Ng disclose the interface apparatus as recited in

claim 17, in addition Starkovich discloses the feature wherein said application server

comprises a connection manager that is to interact with said managed connection

factory (Starkovich, column 9, lines 15-19, a request/response model acting as

connection manager discloses is services Open/OLTP).

Regarding claim 21, Starkovich and Ng disclose the connection apparatus as recited in

claim 17, in addition Starkovich discloses the feature wherein said application server

provides a container-based environment (Starkovich, column 7, lines 66-67, class

definitions used are JavaGate compatible), and wherein said application server

comprises one or more of the following components: a security service manager, a pool

manager, and a transaction manager (Starkovich, column 9, lines 25-26, a transaction

manager is disclosed).

Regarding claim 22, Starkovich discloses a method of connecting an application server

to an information system, said method comprising:

providing a Generic Resource Adaptor Archive (GRAR) file configurable to access an information system (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available),

said information system having an interface and said information system accessible via said interface, utilizing said interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

opening said Generic Resource Adaptor Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for opening files);

adding said interface to said Generic Resource Adaptor Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for adding);

receiving one or more properties associated with said information system (Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available, using a software development kit for receiving);

using the Customized Resource Adaptor Archive (CRAR) file

to connect said application server to said first information system (Starkovich, column 7,

lines 60-67, the gateway built has a Java Libraries available, using a software

development kit for connecting).

Although Starkovich discloses a feature to built customer own

gateway to interface own application, he does not explicitly disclose a feature modifying

said Generic Resource Adaptor Archive (GRAR) file, based on said one or more

properties, to generate a Customized Resource Adaptor Archive (CRAR) file.

Ng discloses a feature modifying said Generic Resource

Adaptor Archive (GRAR) file, based on said one or more properties, to generate a

Customized Resource Adaptor Archive (CRAR) file (Ng, column 3, lines 40-44, multiple

connections are disclosed dynamically associated with transaction by using JDBC 2.0

Standard Extension driver).

Therefore it would have been obvious for one having ordinary

skill in the art at the time the invention was made to incorporate Ng flexible connection

feature with Starkovich generic connection for integrating information systems in order

to create generic connection for information systems with a flexible connection feature

in order to permit a transparent translation between different communication protocols.

Regarding claim 23, Starkovich and Ng disclose the method as recited in claim 22, in

addition Starkovich discloses the feature wherein said method further comprises:

deploying said Customized Resource Adaptor Archive (CRAR) using a deployment tool

(Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available,

using a software development kit for adding).

Regarding claim 24, Starkovich and Ng disclose the method as recited in claim 23, in

addition Starkovich discloses the feature wherein said opening and modifying of said

Generic Resource Adaptor Archive (GRAR) file comprises: using a graphical interface

associated with a deployment tool to open or modify said Generic Resource Adaptor

Archive (GRAR) file (Starkovich, column 7, lines 60-67, the gateway built has a Java

Libraries available, using a software development kit having a framework, an GUI, for

modifying).

Regarding claim 25, Starkovich and Ng disclose the method as recited in claim 21,

wherein said modifying of said Generic Resource Adaptor Archive (GRAR) file

comprises: modifying a deployment descriptor (Starkovich, column 7, lines 60-67, the

gateway built has a Java Libraries available, using a software development kit for

modifying).

Regarding claim 26, Starkovich and Ng disclose the method as recited in claim 22, in

addition Starkovich discloses the feature wherein said modifying of said Generic

Resource Adaptor Archive (GRAR) file comprises: modifying a deployment descriptor

(Starkovich, column 7, lines 60-67, the gateway built has a Java Libraries available,

using a software development kit for adding).

Regarding claim 27, Starkovich and Ng disclose the method as recited in claim 26, in

addition Starkovich discloses the feature wherein said modifying of said deployment

descriptor comprises: editing an XML file, using a Graphical user interface (Starkovich,

column 7, lines 37-39, a interface having a monitor and HTML component, and Java

applet is disclosed).

Regarding claim 28, Starkovich and Ng disclose the method as recited in claim 26, in

addition Starkovich discloses the feature wherein said modifying of deployment

descriptor comprises: editing one or more of the following properties: a server Name, a

port number, a user name, a password, a database name, a data source name, a

description, a network protocol, a role name, a login timeout, driver properties, a

delimiter, and a class name (Starkovich, column 7, lines 60-67, WebTx system having a

Java Libraries available and using a software development is disclosed).

Regarding claim 29, Starkovich discloses a computer readable medium including

computer program code for connecting an application server to an information system,

system, said computer readable medium comprising:

computer program code, stored in at least one computer readable medium and executable by at least one processing unit, for providing a generic connector interface (Starkovich, column 7, lines 41- 42, fig. 4, a generic gateway is disclosed in a NT server);

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit, for receiving information related to an information system, said information system having a first interface, said information system accessible utilizing said first interface (Starkovich, column 6, lines 34-39, fig. 1 a Distributed Transaction Processing is transmitting data and status information to a Transaction Gateway client);

computer program code, stored in the at least one computer readable medium and executable by the at least one processing unit (Starkovich, column 5, lines 1-5, a storage feature is disclosed) for connecting said information system to said application server via said customized connector, wherein said customized connector provides access to said information system through said first interface of said information system (Starkovich, column 8, lines 38-47, fig.6, clients of a WebTx access enterprise applications using a processing information made of custom gateway).

Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose the feature

computer program code generating a customized connector interface, by modifying said

generic connector interface, based on said received information; and

Ng discloses the feature computer program code generating

a customized connector interface, by modifying said generic connector interface, based

on said received information (Ng, column 3, lines 40-44, multiple connections are

disclosed dynamically associated with transaction by using JDBC 2.0 Standard

Extension driver).

Therefore it would have been obvious for one having ordinary

skill in the art at the time the invention was made to incorporate Ng flexible connection

feature with Starkovich generic connection for integrating information systems in order

to create generic connection for information systems with a flexible connection feature

in order to permit a transparent translation between different communication protocols.

Regarding claim 30, Starkovich and Ng disclose the computer readable medium as

recited in claim 29, in addition Starkovich discloses the feature wherein said computer

programming code, stored in at least one computer readable medium and executable

by at least one processing unit, for providing a generic connector interface comprises:

providing a software package (Starkovich, column 8, lines 34-37, Gateway interface

own application to an OLTP enterprise application is disclosed).

Regarding claim 31, Starkovich and Ng disclose the computer readable medium as recited in claim 30, in addition Starkovich discloses the feature wherein said generic connector interface is provided as Resource Adaptor Archive (RAR) file, and wherein said information system is a relational database is compliant with a Java DataBase Connection (JDBC) architecture (Starkovich, column 7, lines 60-67, WebTx system having a Java Libraries available and using a software development is disclosed).

5. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure. Vaitheeswaran et al. (US 2003/0014552 A1) is made part of the record because of the teaching of JDBC driver. Barinov et al. (US 2004/0025171 A1) is made part of the record because of the teaching of object model driver. Chang et al. (US 2003/0045236 A1) is made part of the record because of the teaching of inbuilt driver.

Response to Argument

6. *A.* *The Applicant argues* Starkovich does not teach generating a customized connector interface on an application server by modifying a generic connector interface based on received information related to an information system (Remark, page 8, lines 20-21; lies 35-36).

The Examiner disagrees because Although Starkovich discloses a feature to built

customer own gateway to interface own application, he does not explicitly disclose a

feature generating, utilizing said hardware application server, a customized connector

interface on said hardware application server, by modifying said generic connector

interface, based on said received information.

Ng discloses a feature generating, utilizing said hardware application server, a

customized connector interface on said hardware application server, by modifying said

generic connector interface, based on said received information (Ng, column 3, lines 40-

44, multiple connections are disclosed dynamically associated with transaction by using

JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time

the invention was made to incorporate Ng flexible connection feature with Starkovich

generic connection for integrating information method in order to create generic

connection for information method with a flexible connection feature in order to permit a

transparent translation between different communication protocols.

B. _The Applicant argues_ Starkovich does not teach modifying said Generic

Resource Adaptor Archive (GRAR) file, based on said one or more properties, to

generate a Customized Resource Adaptor Archive (CRAR) file (Remark, page 9, lines

14-16; lines 35-36).

The Examiner disagrees because Although Starkovich discloses a feature to built customer own gateway to interface own application, he does not explicitly disclose a feature modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR) file.

Ng discloses a feature modifying said Generic Resource Adaptor Archive (GRAR) file, based on said one or more properties, to generate a Customized Resource Adaptor Archive (CRAR) file (Ng, column 3, lines 40-44, multiple connections are disclosed dynamically associated with transaction by using JDBC 2.0 Standard Extension driver).

Therefore it would have been obvious for one having ordinary skill in the art at the time the invention was made to incorporate Ng flexible connection feature with Starkovich generic connection for integrating information systems in order to create generic connection for information systems with a flexible connection feature in order to permit a transparent translation between different communication protocols.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR

1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication from the examiner should be directed to

Marie Georges Henry whose telephone number is (571) 270-3226. The examiner can

normally be reached on Monday to Friday 7:30am - 4:00pm. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can

be reached on (571) 272-4006. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300. Information regarding the status

of an application may be obtained from the Patent Application Information Retrieval

(PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is

available through Private PAIR only. For more information about the PAIR system, see

http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/MARIE GEORGES HENRY/

Examiner, Art Unit 2455

/saleh najjar/

Supervisory Patent Examiner, Art Unit 2455